



Spectrasol Sunline 45

LINEAR LUMINAIRES WITH INDIRECT LIGHT DISTRIBUTION



LUMINAIRE DESCRIPTION

The patented Spectrasol linear LED luminaire will illuminate your interior with artificial light with properties close to natural sunlight. Thanks to balanced spectral composition (SPD), which positively influences circadian rhythms of the organism through the non-visual system of the eye (NIF), available at biologically optimised full-spectrum lighting supporting overall health, physical and mental vitality, and cognitive functions (cognitive performance and endurance, concentration, attention, speed of thinking, ability to understand information, memorisation and recall) indoors during the day.

Spectrasol luminaires do not emit concentrated energy in the short wavelengths of the blue part of the light spectrum in the harmful blue light range, which increases the risk of macular degeneration. Spectrasol regenerates the eyes thanks to emission energy red, photobiomodulation light components spectra, which act as a compensating factor for harmful blue light with both preventive and therapeutic effects.

Spectrasol Sunline 45 is a procognitive linear suspended LED luminaire for maximum lighting comfort. Thanks to its indirect light distribution, it creates the impression of a clear sky in the interior, providing pleasant full-spectrum light for work or study.

TECHNICAL PARAMETERS

Lighting parameters

Light distribution	indirect
Optical system	clear PMMA cover
UGR	N/A (indirect lighting)
CCT real ¹	4800K
CCT specific ²	5000K
CRI	>95
DER mel	(D65)=0,87 ; (D50)=1
Flicker	flicker free
Calculated LED lifetime	L80B20 70.000h

Electrical parameters

Power supply	220-240V 50-60Hz
Connection	transparent power cord with plugs

Control options	ON/OFF, DALI, PUSH DIM
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Mechanical parameters

Body	proprietary Aluminum extrusion
Extrusion cross-section	46x49mm (AxB)
Surface finish	powder coating RAL 9003 powder coating black RAL 9005 powder coating silver TIGER 09/90530
Ceiling mount dimensions	80x80x32(mm)
Length of cord and suspension	180cm
Option of connecting in a line	yes ³
Maximum ambient temperature	25°C
Protection	IP20
Packaging	paper + cardboard

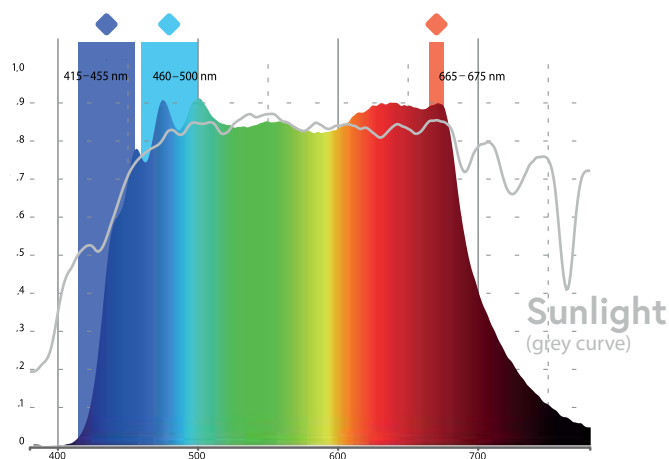
¹actual CCT in a typical illuminated room

²Specific CCT of luminaire(spherical integrator)

³customised modification

tolerance of photometric values +/- 10%

VISUALISATION OF THE SPECTRASOL SPECTRAL COMPOSITION AND DESCRIPTION OF ITS KEY AREAS



◆ Supressed harmful blue light

Does not damage retina cells

Does not emit concentrated energy in the harmful blue light range (415-455 nm)

◆ Procognitive - Circadian melanopic energy

Supports the circadian system and resulting cognitive performance, health and mood

Balanced energy in the cyan procognitive range (460-500 nm)

◆ Regenerative photobiomodulation energy

Regenerates damaged retinal cells

Peak emission in the photobiomodulation red range (~ 670 nm)



SUNLINE 45 VARIANTS

order code	Variant	LED module type	Luminaire luminous flux	EDimel (D65; D50)	Luminaire power consumption [W]	Number of DALI addresses for control	Length [mm]	Standard outlet position [mm]	Cable position (recommended*) [mm]		Luminaire weight [kg]
			[lm]	[lm]			C	d	e	f	
1-S03-05-006	Spectrasol SL45 1800 SR	procognitive LED Spectrasol 5000 K CRI 95	8700	7560; 8700	97	2	1800	55	25	1775	
1-S03-05-007	Spectrasol SL45 1800 WH										
1-S03-05-008	Spectrasol SL45 1800 BK										
1-S03-05-009	Spectrasol SL45 1800 DALI SR										
1-S03-05-010	Spectrasol SL45 1800 DALI WH										
1-S03-05-011	Spectrasol SL45 1800 DALI BK										
1-S03-05-013	Spectrasol SL45 2400 SR	procognitive LED Spectrasol 5000 K CRI 95	11600	10090; 11600	126	2	2400	57	25	2375	
1-S03-05-014	Spectrasol SL45 2400 WH										
1-S03-05-005	Spectrasol SL45 2400 BK										
1-S03-05-015	Spectrasol SL45 2400 DALI SR										
1-S03-05-016	Spectrasol SL45 2400 DALI WH										
1-S03-05-017	Spectrasol SL45 2400 DALI BK										
1-S03-05-019	Spectrasol SL45 3000 SR	procognitive LED Spectrasol 5000 K CRI 95	14500	12610; 14500	162	3	3000	61	25	2975	
1-S03-05-020	Spectrasol SL45 3000 WH										
1-S03-05-021	Spectrasol SL45 3000 BK										
1-S03-05-022	Spectrasol SL45 3000 DALI SR										
1-S03-05-023	Spectrasol SL45 3000 DALI WH										
1-S03-05-024	Spectrasol SL45 3000 DALI BK										

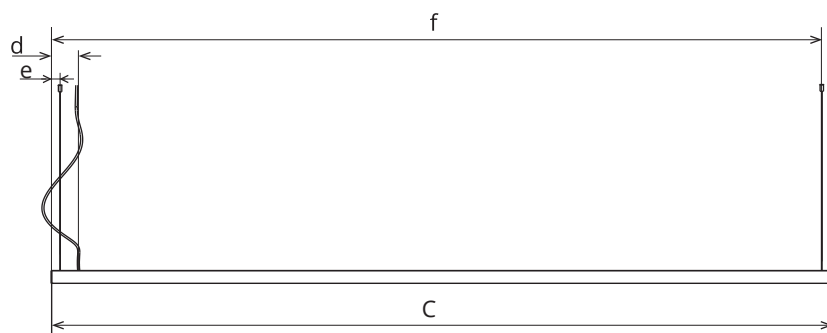
*cable positions can be adjusted by the user

Tolerance of photometric values and lamp power +/- 10%

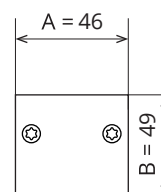
SECURITY

Light fixture type	Maximum number of luminaires per circuit breaker								Starting current	
	C10	C13	C16	B10	B13	B16	B20		I _{max}	Time
Spectrasol SL45 1800	7	10	12	4	6	7	9		68 A	193 μs
Spectrasol SL45 2400	7	10	12	4	6	7	9		68 A	193 μs
Spectrasol SL45 3000	5	6	8	3	4	5	6		102 A	193 μs

LUMINAIRE DIMENSIONS



LIGHT FIXTURE
CROSS SECTION



LUMINAIRE VISUALISATION

